PCT

INTERNATIONAL SEARCH REPORT
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/DK 03/00718	23/10/2003	23/10/2002			
Applicant	•				
LEO PHARMA A/S					
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Authorsmitted to the International Bureau.	nority and is transmitted to the applicant			
	f world E shoots				
This International Search Report consists X	of a total of 5 sheets. a copy of each prior art document cited in this	report			
It is also accompanied by					
Basis of the report					
a. With regard to the language, the language in which it was filed, unl	international search was carried out on the basess otherwise indicated under this item.	sis of the international application in the			
	as carried out on the basis of a translation of the	he international application furnished to this			
Authority (Rule 23.1(b)).					
 b. With regard to any nucleotide an was carried out on the basis of the 	d/or amino acid sequence disclosed in the in e sequence listing :	ternational application, the international search			
contained in the internation	nal application in written form.				
filed together with the inte	rnational application in computer readable for	n.			
furnished subsequently to	this Authority in written form.				
	this Authority in computer readble form.				
international application a	osequently furnished written sequence listing d is filed has been furnished:				
the statement that the info	ormation recorded in computer readable form is	s identical to the written sequence listing has been			
iumsieu					
2. X Certain claims were fou	nd unsearchable (See Box I).				
3. Unity of invention is lac					
		. :			
4. With regard to the title,		• •			
X the text is approved as su	bmitted by the applicant.				
,	shed by this Authority to read as follows:				
5. With regard to the abstract,					
X the text is approved as su	ibmitted by the applicant.				
the text has been establis	shed, according to Rule 38.2(b), by this Authoric e date of mailing of this international search rep	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.			
6. The figure of the drawings to be pub	lished with the abstract is Figure No.				
as suggested by the appl	icant.	None of the figures.			
because the applicant fai	led to suggest a figure.				
because this figure better	characterizes the invention.				



Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sneet)				
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. X Claims Nos.: 18-21 because they relate to subject matter not required to be searched by this Authority, namely:	_			
Claims 18-21 relate to methods of treatment of the human or animal body by therapy (PCT Rule 39.1(iv)). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds or compositions.				
 Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: 				
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows:				
This international Searching Authority found multiple inventions in this international application, as follows.				
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.				
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark on Protest The additional search fees were accompanied by the applicant's protest.				
No protest accompanied the payment of additional search fees.				

INTERNATIONAL SEARCH REPORT

PCT/

International Application No B/00718

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07C401/00 A61K31/59

A61P5/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07C A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
X	WO 95 02577 A (LEO PHARM PROD LTD ;GRUE SOERENSEN GUNNAR (DK)) 26 January 1995 (1995-01-26) the whole document	1-23
X	WO 91 00855 A (LEO PHARM PROD LTD) 24 January 1991 (1991-01-24) the whole document	1-23
X	B. L. ONISKO ET AL: "Synthesis of potential vitamin D antagonists" TETRAHEDRON LETTERS, vol. 18, no. 13, 1977, pages 1107-1108, XP002271061 the whole document	1-23
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
° Special categories of cited documents :	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
"A" document defining the general state of the art which is not considered to be of particular relevance			
"E" earlier document but published on or after the international filing date			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)			
"O" document referring to an oral disclosure, use, exhibition or other means			
"P" document published prior to the international filing date but later than the priority date claimed			
Date of the actual completion of the international search	Date of mailing of the international search report		
20 February 2004	2 5. 03. 2004		
Name and mailing address of the ISA	Authorized officer		
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	PER RENSTRÖM/ EÖ		

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C.(Continua	ntion) DOCUMENTS CONSIDE 0 TO BE RELEVANT	03/00/18	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
A	MALUCHE HH ET AL: "Update on vitamin D and its newer analogues: actions and rationale for treatment in chronic renal failure" KIDNEY INT., vol. 62, no. 2, August 2002 (2002-08), pages 367-374, XP002271062		
•	the whole document		
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	•	·	
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INTERNATIONAL SEARCH REPORT

n on patent family members

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					2	
	Patent document cited in search report		Publication date	•	Patent family member(s)	Publication date
	WO 9502577	Α	26-01-1995	AT	165346 T	15-05-1998
1			• .	ΑU	690564 B2	30-04-1998
1				AU	7182994 A	13-02-1995
				CA	2162040 A1	26-01-1995
				CN	1125941 A ,B	03-07-1996
l				DE	69409811 D1	28-05-1998
				DE	69409811 T2	07-01-1999
				WO	9502577 A1	26-01-1995
				EP	0708755 A1	01-05-1996
				ES.	2117281 T3	01-08-1998
	•			FI	956108 A	19-12-1995
				JP	8512327 T	24-12-1996
				NZ	268567 A	24-11-1997
			,	RU	2130926 C1	27-05-1999
				US	5716945 A	10-02-1998
				03	5/10945 A	10-02-1990
	WO 9100855	Α	24-01-1991	AT	112556 T	15-10-1994
	720000		L. 02 2552	AU	630227 B2	22-10-1992
				AU	6156390 A	06-02-1991
				CA	2057048 A1	11-01-1991
				DE	69013155 D1	10-11-1994
	* ****		• • •	DE "	69013155 T2	09-03-1995
.			•	WO	9100855 A1	24-01-1991
				DK	482100 T3	07-11-1994
-				EP	0482100 A1	29-04-1992
				ES	2064749 T3	01-02-1995
	·			FΙ	93724 B	15-02-1995
- [•			IE -	902317 A1	16-01-1991
1				ĴΡ	2807087 B2	30-09-1998
				ĴΡ	4506965 T	03-12-1992
	,			KR	195547 B1	15-06-1999
				NZ	234326 A	26-03-1993
				PH	27301 A	04-05-1993
				ÜS	5190935 A	02-03-1993
1				ZA	9005094 A	24-04-1991
3						